RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/541,998A_

Source: _TWO_

Date Processed by STIC: _10/4/06_

ENTERED

IFWO

RAW SEQUENCE LISTING　　　　　　　　　DATE: 10/04/2006
PATENT APPLICATION:　US/10/541,998A　　　TIME: 13:37:48

Input Set : A:\19020.seq.txt
Output Set: N:\CRF4\10042006\J541998A.raw

(pg.6)

```
 3 <110> APPLICANT: Collier, Greg
 4        Walder, Ken
 5        Segal, David
 6        Foletta, Victoria
 8 <120> TITLE OF INVENTION: OBESITY-RELATED GENES
10 <130> FILE REFERENCE: 19020
12 <140> CURRENT APPLICATION NUMBER: 10/541,998A
13 <141> CURRENT FILING DATE: 2005-07-13
15 <160> NUMBER OF SEQ ID NOS: 13
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 426
21 <212> TYPE: DNA
22 <213> ORGANISM: Psammomys obesus
24 <220> FEATURE:
25 <221> NAME/KEY: misc_feature
26 <222> LOCATION: (336)..(336)
27 <223> OTHER INFORMATION: n = any nucleotide
30 <400> SEQUENCE: 1
31 ggacatcttt tcagccatga ggagctttct ggaaactcgg agttgataca gaaatatagg     60
33 aatataatca cgcaggctcc taacctggag aacattgagc tgtactggaa cagctacaac    120
35 aaccgccgag acctgaactt cgagcgaggt ggtgagatga ccctcaagtg ccctgtgatg    180
37 ctggtggtag agaccaagc gcctcatgag gatgccgtgg tggagtgtaa ctcaaaactg    240
39 gaccccacac agacctcgtt cctcaagatg ctgattctg gaggtcagcc acagctgacc    300
```
W--> `41 cagccaggca agctgactga ggctttcaag tacttnctgc aaggcatggg ctacatggcc    360`
```
43 tcctcctgca tgactcgcct atcgaggtct cgcacggcat cttttgaccag cgcagcatcc    420
45 attgat                                                              426
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 451
50 <212> TYPE: DNA
51 <213> ORGANISM: Psammomys obesus
53 <400> SEQUENCE: 2
54 gctggtaccg gtccggaatt cccgggatat cgtcgaccca cgcgtccggt ggtggagaag     60
56 atcgctcctg ccgtggttca cattgaactg tatcgcaaac ttcctttctc gaagagggag    120
58 gtgccagtgg cgagtgggtc cggatttatc gtgtctgagg atggactgat tgtgaccaat    180
60 gctcacgtgg tgaccaacaa aaacagggtc aaggttgagc tgaagaatgg agcaacctat    240
62 gaagctaaaa tcaaggatgt ggatgaaaag gcagacatcg cacttatcaa aattgaccac    300
64 cagggaaagc tgccagtctt gctgctgggc cgctcctcag agcttcgacc aggagagttt    360
66 gtggtcgcca tcggaagccc cttttccctt caaaacacag tcaccactgg gatcgtcagt    420
68 accacccagc gaggcggcaa agagctgggg c                                  451
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 478
73 <212> TYPE: DNA
```

RAW SEQUENCE LISTING   DATE: 10/04/2006
PATENT APPLICATION: US/10/541,998A   TIME: 13:37:48

Input Set : **A:\19020.seq.txt**
Output Set: **N:\CRF4\10042006\J541998A.raw**

```
74 <213> ORGANISM: Psammomys obesus
77 <400> SEQUENCE: 3
78 tgacattttc tttccacctc ttatgatagc tgatatatac taaatcttta tacagaaatg      60
80 tcagtacttg aacaaattca aaacacattg gtttattaac ttttggctca tgcatggttt     120
82 attaggttca aattatacct gattcatcta tatttacttt taaaatgtgt ggtttcctca     180
84 ttttaaaagt aaaactaaac agtgcttttg gaatttctaa gctactaatt gttgatagat     240
86 acagcctgtg tctagtaaaa tagttttgtg ggtgtgggtt ctatctttcc atgaaaaagt     300
88 gggaggtgta agttagtttg gttagtgcct aatagttaaa tttatataaa ataagaatga     360
90 gcatttggta tctgtatgaa agggccctaa atcaaaatga ttatccataa tcaatcttta     420
92 ttcttgtttt ataaaaacca aagggcactc attggttaag tgtgctgaga tagaaaag      478
95 <210> SEQ ID NO: 4
96 <211> LENGTH: 1884
97 <212> TYPE: DNA
98 <213> ORGANISM: Psammomys obesus
100 <220> FEATURE:
101 <221> NAME/KEY: misc_feature
102 <222> LOCATION: (609)..(609)
103 <223> OTHER INFORMATION: n = any nucleotide
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: (611)..(611)
109 <223> OTHER INFORMATION: n = any nucleotide
113 <220> FEATURE:
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (1388)..(1388)
116 <223> OTHER INFORMATION: n = any nucleotide
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <222> LOCATION: (1390)..(1390)
122 <223> OTHER INFORMATION: n = any nucleotide
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (1413)..(1413)
128 <223> OTHER INFORMATION: n = any nucleotide
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (1512)..(1512)
134 <223> OTHER INFORMATION: n = any nucleotide
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (1568)..(1568)
140 <223> OTHER INFORMATION: n = any nucleotide
143 <400> SEQUENCE: 4
144 cgcagatact gcagagctga cgcattcttt gcctggcatc tcagcttgct aggtgtctca      60
146 tcttcgctct gcgctcgtgg cctcctccaa ggcctccagt ctcctttaag aaaactcaag     120
148 acctgggaag ctacgatgcg agcttgatgc cgctaccctā gcaggctatg gacttcctga     180
150 gggtcctcgg actgttgaca cccattccga tccgcatcct tccaagctga taagcccggg     240
152 accctagggc ggggtgccca gactcatgtg tgacgccttg cagtgaaacc ccattcccag     300
154 tgtggttgct tctttgctgg gctttggccc atttgatacc acgaaggatg acgatgctag     360
```

```
      156 ttatgcagca gccaacacac ctccccccaa ctctccgctg tcactggtgg gccccactgt   420
      158 ccaggaagca ggtgtccgga actgacatct tggagcagag gggccatgag aggtgtgtgt   480
      160 atcctgccag aaagcagctg gaccacgacg ctcccaagat gaacccactg tatacagagg   540
      162 catcatggga gttgttatgt caggagcatt ctagacccac gtgtacttga gcgtggaaag   600
  W--> 164 acagaagana ngcgcagaga ctggggcact tgatctgctc accatgatcg cctgcacggg   660
      166 tctcatccag ttcctgcctt aggctacagt ggcggtgtcc acgggcttgc cattcaacgt   720
      168 gctctcagac ccagatcggg ctcaccactg aggagaacct tttcactttg gtgggtatgc   780
      170 agagggaagg gtctcgactc cagagacctg gagtccaaag tttgtttttt tttatttacc   840
      172 agtaatttat ttattttttt tattattagt tatgagtcca aagtttaata ccattcaagc   900
      174 tactgctgtc tgtctgctta gagccacagc atgcaatgtg gcaccaaggc atccttgtcc   960
      176 tcacagtttc acactgtggg aacaggcatc cttgttctta cagattagcg cgagggaaac   1020
      178 cagaaatatt aaacacgcag ggttgtctct ccaaagggag aggcacatac cctgtttcc    1080
      180 tcccgaaggc tgggagcgga ggtgtttgat atcctggcta cctctgtgca atctgtaggc   1140
      182 catgtcctta agatgtagct gtcagtcggt agtggagccg gagccgtcag tcagtagatt   1200
      184 ggggttgtgg catgcgcctt taactccatt taattccagc actctagtgg tttggtacag   1260
      186 cagcagcagc agcggttgca gtggcccggg gaagtcctga agaccagctt tcatcccagc   1320
      188 actcaggcag caaaggcggg tggattctct gagttcgagg ccggcctggt ctacagagtg   1380
  W--> 190 agtccagncn agccagggct acaacagaga aancctctct attgaaaaat aaataaatta   1440
      192 taaaaagaaa aaggtgtcat gtgtcctgtg tactttacaa agaatgttga tgcttaagct   1500
  W--> 194 tttttgtgca cncaagaaaa ttgtttaact ggtgtcagac tcctgaagtt tgaaccagca   1560
  W--> 196 cttagccngg cgtggtggcg cacgcctgta atcccagccc tcgggaggca gaggcaggtg   1620
      198 gatctctgag ttagaggcca gcctggtcta cagagtgagt ccaggacagc caggattaca   1680
      200 cagagaaacc ccgtctcaaa aatgtaaaat aaattaaaat aaagtttgaa ccaacagtgt   1740
      202 ttactgagtc gtgttgaaac agattacctt tttgcttctc tttgatcatt attctactgt   1800
      204 ggtgtcagca gagacccctc cagcaggtgg ccaacgtgag agtctcaagc ccgagaaggt   1860
      206 aagaatttaa aaaaaaaaa aaaa                                           1884
      209 <210> SEQ ID NO: 5
      210 <211> LENGTH: 1358
      211 <212> TYPE: DNA
      212 <213> ORGANISM: Psammomys obesus
      214 <220> FEATURE:
      215 <221> NAME/KEY: misc_feature
      216 <222> LOCATION: (385)..(385)
      217 <223> OTHER INFORMATION: n = any nucleotide
      220 <220> FEATURE:
      221 <221> NAME/KEY: misc_feature
      222 <222> LOCATION: (416)..(416)
      223 <223> OTHER INFORMATION: n = any nucleotide
      227 <220> FEATURE:
      228 <221> NAME/KEY: misc_feature
      229 <222> LOCATION: (430)..(430)
      230 <223> OTHER INFORMATION: n = any nucleotide
      233 <220> FEATURE:
      234 <221> NAME/KEY: misc_feature
      235 <222> LOCATION: (507)..(507)
      236 <223> OTHER INFORMATION: n = any nucleotide
      239 <220> FEATURE:
      240 <221> NAME/KEY: misc_feature
      241 <222> LOCATION: (754)..(754)
```

RAW SEQUENCE LISTING   DATE: 10/04/2006
PATENT APPLICATION: US/10/541,998A   TIME: 13:37:48

Input Set : A:\19020.seq.txt
Output Set: N:\CRF4\10042006\J541998A.raw

```
242 <223> OTHER INFORMATION: n = any nucleotide
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (856)..(856)
248 <223> OTHER INFORMATION: n = any nucleotide
251 <220> FEATURE:
252 <221> NAME/KEY: misc_feature
253 <222> LOCATION: (928)..(928)
254 <223> OTHER INFORMATION: n = any nucleotide
257 <220> FEATURE:
258 <221> NAME/KEY: misc_feature
259 <222> LOCATION: (980)..(980)
260 <223> OTHER INFORMATION: n = any nucleotide
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (1165)..(1165)
267 <223> OTHER INFORMATION: n = any nucleotide
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (1200)..(1200)
273 <223> OTHER INFORMATION: n = any nucleotide
276 <220> FEATURE:
277 <221> NAME/KEY: misc_feature
278 <222> LOCATION: (1273)..(1273)
279 <223> OTHER INFORMATION: n = any nucleotide
282 <220> FEATURE:
283 <221> NAME/KEY: misc_feature
284 <222> LOCATION: (1284)..(1284)
285 <223> OTHER INFORMATION: n = any nucleotide
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (1303)..(1303)
291 <223> OTHER INFORMATION: n = any nucleotide
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (1305)..(1305)
297 <223> OTHER INFORMATION: n = any nucleotide
301 <220> FEATURE:
302 <221> NAME/KEY: misc_feature
303 <222> LOCATION: (1326)..(1326)
304 <223> OTHER INFORMATION: n = any nucleotide
307 <220> FEATURE:
308 <221> NAME/KEY: misc_feature
309 <222> LOCATION: (1330)..(1330)
310 <223> OTHER INFORMATION: n = any nucleotide
313 <400> SEQUENCE: 5
314 gttgggaaag aatgaagaaa caacccgatg aatagaaatg aaaagcctaa gccaaatgga      60
316 tttctgttga gatgttggat gaaaacaagt atccactgtt taccaacttg acgaaaaatc     120
318 tcaactgagg tttggctgtt aaaaaaaaaa attcactgtg gcctctgtgc ttaattgtcg     180
```

```
       320 taaaccattg tgactgttac tgctcaaagt atcgtactgt tcattagtaa ctacatcaga    240
       322 attgcaccgc tgctgttgga aaagccaata aagaaacccc cagactgctg ctcagcaaat    300
       324 gttaataaag tgtgcgcacc gtaggcctgt ccacccagtc accaagcagc gtccctttgt    360
W--> 326 ctgcgagtgg ctgtgggtgt gattnaccac ctcagaggtg cacagcacct gcttgngccc    420
W--> 328 ttaagtgtgn gtcagaagac aagcagcttc tcggtaacca acaacctgct tttcggagct    480
W--> 330 cagtgtttag gctgtttact gaatcanata tgtaactcag cacacataag cgaagagaga    540
       332 ttttggctgc actggcaaga gtgaaccaaa tttacttcta tttttttaaag gcagatcata    600
       334 tttaagcata taagtaattt atggatataa attgttggat atttatttta gtctgaatat    660
       336 ttgttttttaa attattacat gtgttctcta tgtctttatc tctggaataa cgatgccatt    720
W--> 338 aaccacatgg ccatatgttt tgaaagttgg gtgnaacaga ggaaaagtca tccttcttgg    780
       340 ttcttgactc cctttcctca actacatgat aagtctatca ataaagcatt tgacctcagc    840
W--> 342 aggggcagaa gcctgnaaag ttagaaaact cattgaccac agtagacaat tgatttctta    900
W--> 344 gaaataagaa gtgagaagca gctgctgngc tgagcagggg atgtaaacca agtccagatg    960
W--> 346 caccaacgtg aagaggcttn tagcaaaaat atgtttgcct ctcacccctg cacatgttct   1020
       348 agatgcttaa aaacagccac atggccccgc tgcgaggacc tcgtaatgtt gttgttgttg   1080
       350 ttgttgttgt taaaggagtt ctcacaagcg tacaagtgca gcactgaaag tggctgaggc   1140
W--> 352 ccacagtcct cagcacccaa gtctnttccg cagcacgcca agctggtgtt gtccgggtgn   1200
       354 gtatgtctgt gctcagtgcc aagctggtgt ttggtcccgt tgtatattat gtgccccaag   1260
W--> 356 tgtttgggg canagctgac ccangctgga cacacttctt ttngncttcg agtttactgg   1320
W--> 358 ttgatncagn taaaaataaa ttaattaatt aaagactt                            1358
       361 <210> SEQ ID NO: 6
       362 <211> LENGTH: 390
       363 <212> TYPE: DNA
       364 <213> ORGANISM: Psammomys obesus
       366 <220> FEATURE:
       367 <221> NAME/KEY: misc_feature
       368 <222> LOCATION: (3)..(3)
       369 <223> OTHER INFORMATION: n = any nucleotide
       372 <220> FEATURE:
       373 <221> NAME/KEY: misc_feature
       374 <222> LOCATION: (9)..(9)
       375 <223> OTHER INFORMATION: n = any nucleotide
       378 <400> SEQUENCE: 6
W--> 379 gtngaagcnt aggagttcga ggatgcgccc gatgtcgagc cgctggaacc cacgcttagc    60
       381 aatatcatcg agcagcgcag ccttaagtgg atcttcgtcg ggggcaaggg tggcgttggt   120
       383 aagaccacct gcagctgcag cctggcggtc cagctgtcta agggacgtga gagtgttcta   180
       385 atcatttcca cagacccagc tcacaacatc tcagatgcat ttgaccagaa gttctccaag   240
       387 gtgcctacca aggtcaaagg ctatgacaac ctctttgcta tggagataga cccgagcctg   300
       389 ggcgtggcag agctccctga tgaagttctt cgaggaagac aacatgctga gcatgggcaa   360
       391 gaagatgatg caggaggcca tgagcgcctt                                     390
       394 <210> SEQ ID NO: 7
       395 <211> LENGTH: 927
       396 <212> TYPE: DNA
       397 <213> ORGANISM: Psammomys obesus
       399 <220> FEATURE:
       400 <221> NAME/KEY: misc_feature
       401 <222> LOCATION: (524)..(524)
       402 <223> OTHER INFORMATION: n = any nucleotide
       405 <220> FEATURE:
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/04/2006
PATENT APPLICATION: US/10/541,998A   TIME: 13:37:49

Input Set : **A:\19020.seq.txt**
Output Set: **N:\CRF4\10042006\J541998A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 336
Seq#:4; N Pos. 609,611,1388,1390,1413,1572,1568
Seq#:5; N Pos. 385,416,430,507,754,856,928,980,1165,1200,1273,1284,1303
Seq#:5; N Pos. 1305,1326,1330
Seq#:6; N Pos. 3,9
Seq#:7; N Pos. 524,527
Seq#:8; N Pos. 60
Seq#:9; N Pos. 71,91,113,388

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/541,998A**

DATE: 10/04/2006
TIME: 13:37:49

Input Set : **A:\19020.seq.txt**
Output Set: **N:\CRF4\10042006\J541998A.raw**

```
L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:600
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1380
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1500
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1560
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:360
L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:480
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:720
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:840
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:900
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:960
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:1140
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:1260
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:1320
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60
L:515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:360
```